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- (71) Applicant (for all designated States except US): MO-TORIKA INC.; Nerine Chambers, P.O. Box 905, Road Town, Tortola (VG).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): EINAV, Omer [IL/IL]; 42875 Kfar Monash (IL). EINAV, Haim [IL/IL]; 28 Shlush Street, 65149 Tel-Aviv (IL). ROUSSO, Benny

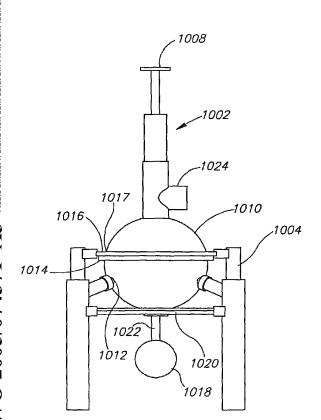
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[IL/IL]; 12 Henry Bergson Street, 75801 Rishon Lezion (IL). SHABANOV, Doron [IL/IL]; 34 Hadkalim Boulevard, 44862 Zur Igal (IL). KATZIR, Eran [IL/IL]; 12 Amnon Vetamar Street, 48580 Rosh Ha'Ayin (IL). BINYAMINI, Gad [IL/IL]; 45870 Moshav Hagor (IL).

- (74) Agents: FENSTER, Paul et al.: FENSTER & COM-PANY, INTELLECTUAL PROPERTY LTD., P.O. Box 10256, 49002 Petach Tikva (IL).
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(54) Title: METHODS AND APPARATUS FOR REHABILITATION AND TRAINING



(57) Abstract: The invention relates to a rehabilitation device which guides a patient to perform a motion with a correct spatial trajectory, by the device applying one or more pushing, assisting, reminding, responding and/or resisting forces during a motion (or intent to move) by the patient. The forces are applied by an actuator, for example, a robotic articulated arm or a spherically jointed lever. The applied forces act as a force fields, optionally continuous, which impeded and/or guides a patient. The device can be programmable with various trajectories (paths and/or velocities) and/or forces. The forces at one point in the trajectory can vary responsive to an actual trajectory by the patient and/or responsive to a rehabilitation plan and/or improvement of the patient. The device can learn a motion entered by a physiotherapist and replay it for the patient.



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